

SECTION 1-Chemical Product and Company Identification

Product Name	Aardvark Pigment Blue-29	CAS#	Mixture
Company	Aardvark Colors 245 Kent Ave Brooklyn, NY 11249 USA	Tel.	In Case of Emergency (718) 599-7857
Active Chemical(s)	Aqueous based dispersion of Ultramarine Blue, C.I. # 77007.		



SECTION 2-Composition and Information on Ingredients

<u>Ingredient(s):</u>	<u>CAS#</u>	<u>% by Weight</u>	<u>OSHA Hazard*</u>
Water	7732-18-5	<60.0	N
Ultramarine Blue (Sodium Alumino Sulphosilicate chemical family)	57455-37-5	40.0	N
Dispersing/gelling agents(s)	mixture	0-5	N

*Substance(s) marked "Y" are identified as OSHA hazardous chemicals under the criteria of the OSHA Standard (29 CFR 1910.1200). This is not intended to be a complete disclosure of all non-active components within the dispersion.

SECTION 3-Hazard Identification

Emergency Overview:

- ➔ Contact with acids, as exposure liberates hydrogen sulfide a highly flammable, toxic gas.
- ➔ Evaporated dispersion may create nuisance dust.
- ➔ Not an environmental hazard.

SECTION 4-First Aid Measures

Eyes: Dust may cause irritation. Flush with plenty of water for 10 minutes, occasionally lifting lower and upper eyelids.

Skin: Wash thoroughly with non-abrasive soap and water. If irritation persists, seek medical attention.

Inhalation: Non-toxic, no action necessary. Remove to fresh air. In extreme distress administer CPR.

Ingestion: Non-toxic, no action necessary.

SECTION 5-Fire Fighting Measures

Material flammable, explosive, or combustible? Non-Flammable

Auto-Ignition Temperature: Non-Flammable **Flash Point:** Non-Flammable

Combustion Hazards: Hazardous decomposition, burning sulfur decomposes into toxic gases of Sulfur dioxide & Hydrogen sulfide.

Special Fire Hazards: Prevent human exposure to smoke, fumes or products of combustion.

Extinguishing Media: Use water fog to extinguish fire. Do not use solid streams of water, which could cause sulfur dust clouds and cause an explosion.

Protective Equipment: Protect against inhalation of combustion byproducts. Wear self-contained breathing apparatus in confined areas.

SECTION 6-Accidental Release Measures

Personal Protection: Proper industrial hygienic practices with rubber gloves, safety goggles and an approved NIOSH dust/mist respirator where applicable. Launder clothes before reuse.

Spill Procedure: Cover with absorbent material. Sweep, shovel or vacuum into a closed container. Do not put into public waterways or sewer systems. Dispose of at an approved chemical disposal or incineration facility in compliance with all current Local, State and Federal regulations.

SECTION 7-Handling and Storage

Handling: Observe good industrial hygienic practices and safety practices. Avoid prolonged or repeated skin contact. Wash thoroughly before eating, drinking, smoking or applying cosmetics.

Storage: **Protect from freezing.** Storage temperature range 40° - 100°F recommended. Keep drums covered when not in use to avoid evaporation and/or contamination.

SECTION 8-Exposure Controls and Personal Protection

Personal Protection:



Exposure Limits: No specific limits are established for this dispersion; therefore the OSHA limits for nuisance levels should be observed unless otherwise noted.

<u>ACGIH TLV</u>	<u>Standard for Particulates (N.O.C.)</u>	<u>ACGIH TLV</u>
Total dust: 10 mg/m ³		Respirable: 5 mg/m ³

SECTION 9-Physical and Chemical Properties

Physical State	Color	pH	Odor
Liquid	Blue	>8.0	Mild
Freeze Point / Boiling Point	Specific Gravity	% Active Solids (±1%)	% Volatile (as Water)
32°F / 212°F (water portion)	~1.31	40.0	<60.0
Boiling Point	Solubility in Water		
>400°C (loss of sulfur)	Miscible		

SECTION 10-Stability and Reactivity

Chemical Stability: Stable to 350°C (dry active material) **Conditions of Instability:** Do not freeze.

Incompatible Materials: Incompatibility to acids. Contact with acids liberates hydrogen sulfide, a highly flammable toxic gas. At temperatures above 400°C, in the presence of air, an exothermic reaction can occur and form sulfur dioxide.

SECTION 11-Toxicological Information

Routes of Entry: As supplied primary routes of occupational exposure are eye, skin or ingestion.

Exposure Limits: Non-toxic.

Toxicological Data: **Oral LD50** >10,000 mg/kg (Rat) **Dermal LD50** N/D

Chronic Effects **Carcinogenicity:** Not listed by IARC, NTP or OSHA as a probable human carcinogen.

SECTION 12-Ecological Information

Mobility: Liquid miscible in water. **Potential to Bioaccumulation:** Unknown

Degradability: Aqueous portion will evaporate. Ultramarine pigments are synthetic equivalents to Lapis Lazuli. They are extremely stable, except under acidic conditions when they will decompose to white siliceous material with the evolution of hydrogen sulfide.

Ecotoxicity: Ultramarine pigments pose no threat to the environment if disposed of responsibly.
CL 50 – 96 hr (Fish): >32,000 mg/kg
CE 50i – 24 hr (Daphnia Magna) >90%

SECTION 13-Disposal Considerations

Hazardous waste classification under federal regulations (40 CFR Part 261 et seq.) is dependent upon whether the material is a RCRA "listed hazardous waste" or has any of the four RCRA "hazardous waste characteristics":

RCRA Status: Not regulated, and not subject to reporting as it is not identified as a hazardous waste.

Ultramarine pigments should not be disposed of where there is a risk of contact with acids.

Disposal: Check your local & state regulations, which may be more stringent than the federal regulations. The person generating the waste is responsible for determining the waste classification & disposal method. Empty drums retain residue, observe safeguards until the drum is clean and/or destroyed.

SECTION 14-Transport Information

Ultramarine pigments are not classified as dangerous substances for supply or conveyance under US or international shipping regulations.

DOT Regulations: Do not transport with acids. **Harmonized Tariff** Code 3206.41.0000

CERCLA Not applicable. Comprehensive Environmental Response Compensation and Liability Act. If this product is accidentally spilled it is not subject to any special reporting. We recommend you contact state and local authorities to determine if there are other local reporting requirements.

SECTION 15-Regulatory Information

TSCA Inventory The active ingredient(s) are listed under CAS Registry Number: 57455-37-5
 All components of this dispersion are listed on the TSCA Inventory. Mixture

National Registries: EINECS (Europe) DSL (Canada)
 (Active dry ingredient)

AICS (Australia) CAS Number MITI (Japan)

SARA Title III N/A

California Prop 65 May contain the following Prop 65 regulated chemicals in the typical amounts listed below as a result of their natural presence in raw materials used to manufacture Ultramarine pigments.

(dry pigment)	Arsenic<3 ppm	Beryllium- Not detected	Cadmium <0.05 ppm	Chromium 12 ppm
	Lead 17 ppm	Mercury <1 ppm	Nickel 1 ppm	

Handling guidelines dry active material and as supplied in an aqueous dispersion:

Ultramarine Blue Pigment (dry powder)

Aqueous Dispersion

Health	1	Health	1
Fire	0	Fire	0
Reactivity	0	Reactivity	0
Personal	E	Personal	E

Hazard Rating Index

0 = Minimal	3 = High	A =	Eye / Clothing
1 = Slight		B =	Eye Protection / Gloves
2 = Moderate	4 = Extreme	E =	Eye Protection / Clothing / Dust Mask / Gloves

SECTION 16-Other Information

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Glossary: ACGIH- American Conf. of Gov't Industrial Hygienists CERCLA- Comprehensive Emergency Response
 CAS No.- Chemical Abstract Service Registry No. IARC- Int'l Agency for Research on Cancer
 N/A- Not Applicable N/D- No Data
 N/E- Not Established NTP- National Toxicology Program
 OSHA- Occupational Safety & Health Adm. PEL- OSHA Permissible Exposure Limit
 RCRA- Resource Conservation & Recovery Act RQ- Reportable Quantity
 SARA- Superfund Amendment Reauthorization Act STEL- Short-term Exposure Limit
 TLV- Threshold Planning Quantity TSCA- Toxic Substance Control Act

Disclaimer

This information has been compiled from sources considered to be dependable, and data that Aardvark Colors believes to be accurate. This form is provided solely for your information and consideration for the purpose of compliance with OSHA Hazard Communication Standard, 29 CFR 1910.1200.